

ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ, ΠΟΛΙΤΙΣΜΟΥ, ΑΘΛΗΤΙΣΜΟΥ ΚΑΙ ΝΕΟΛΑΙΑΣ

ΤΥΠΟΛΟΓΙΟ ΜΑΘΗΜΑΤΙΚΩΝ Β' ΚΑΤΕΥΘΥΝΣΗΣ

Τριγωνομετρία

$$\eta\mu(A \pm B) = \eta\mu A \sigma\upsilon\nu B \pm \sigma\upsilon\nu A \eta\mu B$$

$$\sigma\upsilon\nu(A \pm B) = \sigma\upsilon\nu A \sigma\upsilon\nu B \mp \eta\mu A \eta\mu B$$

$$2\eta\mu\alpha \cdot \sigma\upsilon\nu\beta = \eta\mu(\alpha - \beta) + \eta\mu(\alpha + \beta)$$

$$2\sigma\upsilon\nu\alpha \cdot \sigma\upsilon\nu\beta = \sigma\upsilon\nu(\alpha - \beta) + \sigma\upsilon\nu(\alpha + \beta)$$

$$2\eta\mu\alpha \cdot \eta\mu\beta = \sigma\upsilon\nu(\alpha - \beta) - \sigma\upsilon\nu(\alpha + \beta)$$

$$\eta\mu 2\alpha = 2\eta\mu\alpha \cdot \sigma\upsilon\nu\alpha$$

$$\sigma\upsilon\nu 2\alpha = \sigma\upsilon\nu^2\alpha - \eta\mu^2\alpha$$

$$\eta\mu^2\alpha = \frac{1 - \sigma\upsilon\nu 2\alpha}{2}$$

$$\sigma\upsilon\nu^2\alpha = \frac{1 + \sigma\upsilon\nu 2\alpha}{2}$$

$$\eta\mu 2\alpha = \frac{2\varepsilon\varphi\alpha}{1 + \varepsilon\varphi^2\alpha}$$

$$\sigma\upsilon\nu 2\alpha = \frac{1 - \varepsilon\varphi^2\alpha}{1 + \varepsilon\varphi^2\alpha}$$

$$\eta\mu A + \eta\mu B = 2\eta\mu \frac{A+B}{2} \sigma\upsilon\nu \frac{A-B}{2}$$

$$\eta\mu A - \eta\mu B = 2\eta\mu \frac{A-B}{2} \sigma\upsilon\nu \frac{A+B}{2}$$

$$\sigma\upsilon\nu A + \sigma\upsilon\nu B = 2\sigma\upsilon\nu \frac{A+B}{2} \sigma\upsilon\nu \frac{A-B}{2}$$

$$\sigma\upsilon\nu A - \sigma\upsilon\nu B = 2\eta\mu \frac{B-A}{2} \eta\mu \frac{A+B}{2}$$

$$\alpha = 2R \cdot \eta\mu A$$

$$\alpha^2 = \beta^2 + \gamma^2 - 2 \cdot \beta \cdot \gamma \cdot \sigma\upsilon\nu A$$

$$E = \frac{1}{2} \beta \cdot \gamma \cdot \eta\mu A$$